

CLAIMPTO

WNP

09/28/2004

5. (Currently amended) A carrier protein according to claim 4, that comprises a P23TT, P32TT, P21TT, P4Cs PFT3, P30TT, P2TT, HBVnc, HA influenza hemagglutinin (HA), HbsAg and ~~MF~~ influenza matrix (MT) CD4+ T cell epitope epitopes.

6. (Currently amended) A ~~The~~ carrier protein according to claim 4 ~~5~~, that further comprises a P23TT, P32TT, P21TT, P4Cs, P30TT, P2TT, HBVnc, HA, HbsAg, ~~MF~~ and an hsp70 CD4+ T cell epitope.

33. (Currently amended) A ~~The~~ carrier protein according to claim 5, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

34. (Currently amended) A ~~The~~ carrier protein according to claim 6, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

35. (Currently amended) A ~~The~~ carrier protein according to claim 5, ~~wherein the carrier protein is in an oligomeric form.~~

36. (Currently amended) A ~~The~~ carrier protein according to claim 6, ~~wherein the carrier protein is in an oligomeric form.~~

37. (Currently amended) A ~~The~~ carrier protein according to claim 5, conjugated to a polysaccharide.

38. (Currently amended) A ~~The~~ carrier protein according to claim 6, conjugated to a polysaccharide.

41. (Previously presented) A vaccine comprising the carrier protein according to claim 5.

42. (Previously presented) A vaccine comprising the carrier protein according to claim 6.

13. (Currently amended) A The carrier protein according to claim 44 37, wherein the polysaccharide is from any one of the following organisms: *S. pneumoniae*, *N. meningitidis*, *S. aureus*, *Klebsiella*, or *S. typhimurium*.

14. (Currently amended) A The carrier protein according to claim 44 37, wherein the polysaccharide is conjugated to the carrier protein by a covalent linkage.

39. (Currently amended) A The carrier protein according to claim 37, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

40. (Currently amended) A The carrier protein according to claim 38, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

15. (Currently amended) A The carrier protein according to claim 44 37, wherein the polysaccharide is conjugated to the carrier protein by reductive amination.

43. (Previously presented) A vaccine comprising the carrier protein according to claim 39.
44. (Previously presented) A vaccine comprising the carrier protein according to claim 40.